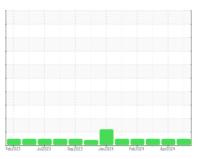


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



Machine Id

AUTOCAR 812012

Diesel Engine

DIESEL ENGINE OIL SAE 40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

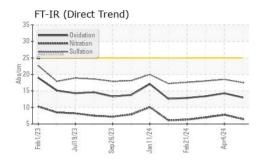
Fluid Condition

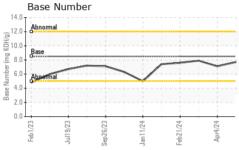
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

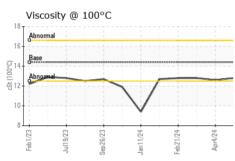
		Feb2023	Jul2023 Sep 2023	Jan2024 Feb2024 A	or2024	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		GFL0116753	GFL0116793	GFL0116741
Sample Date		Client Info		06 May 2024	04 Apr 2024	20 Mar 2024
Machine Age	hrs	Client Info		5564	5376	5286
Oil Age	hrs	Client Info		5564	5376	5286
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINAT	ION	method	limit/base	current	history1	history2
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METAL	S	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>90	5	5	12
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>20	3	3	1
Lead	ppm	ASTM D5185m	>40	0	0	0
Copper	ppm	ASTM D5185m		<1	0	0
Tin	ppm	ASTM D5185m	>15	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	250	10	13	9
Barium	ppm	ASTM D5185m	10	0	0	0
Molybdenum	ppm	ASTM D5185m	100	60	59	58
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	450	814	785	842
Calcium	ppm	ASTM D5185m	3000	1131	1139	1163
Phosphorus	ppm	ASTM D5185m	1150	1052	935	1008
Zinc	ppm	ASTM D5185m	1350	1183	1108	1195
Sulfur	ppm	ASTM D5185m	4250	3146	2973	3512
CONTAMINAN	18	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	4	2	7
Sodium	ppm	ASTM D5185m	>216	3	2	16
Potassium	ppm	ASTM D5185m	>20	6	4	6
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>6	0.2	0.3	0.4
Nitration	Abs/cm	*ASTM D7624	>20	6.5	7.8	7.0
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.5	18.5	18.0
FLUID DEGRA	DATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.0	14.3	13.4
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.7	7.1	7.9



OIL ANALYSIS REPORT



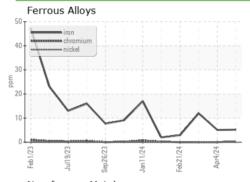




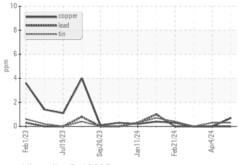
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

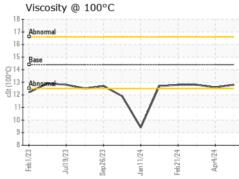
FLUID PROP	ERITES	method	ilmit/base		nistory i	nistoryz
Visc @ 100°C	cSt	ASTM D445	14.4	12.8	12.6	12.8

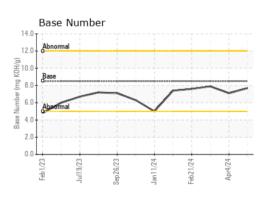
GRAPHS















Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : GFL0116753 Lab Number : 06174940 Unique Number : 11020993

Received : 09 May 2024 **Tested** : 10 May 2024

Diagnosed : 10 May 2024 - Wes Davis

Fairburn, GA US 30213 Contact: Eric Jones erjones@gflenv.com

6905 Roosevelt Hwy

GFL Environmental - 009 - Fairburn

T: (678)630-9927

Test Package : FLEET Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Report Id: GFL009 [WUSCAR] 06174940 (Generated: 05/10/2024 16:31:39) Rev: 1